

CLAIMS

- 1 1. A device for attracting metal particles which comprises:
 - 2 a longitudinal member having a first and second end;
 - 3 a first magnet connected to said first end, said first magnet having a surface;
 - 4 a housing connected to said second end and being substantially perpendicular to said
 - 5 longitudinal member, said housing having a second magnet disposed therein;
 - 6 a plate having a surface area secured to said housing and positioned within a proximity to
 - 7 said second magnet to magnetize said plate, said surface area of said plate having a substantially
 - 8 larger square area than said surface of said first magnet.
- 1 2. The device of claim 1 wherein said housing is pivotally connected to said second end.
- 1 3. The device of claim 1 wherein said housing is rotatably connected to said second end.
- 1 4. The device of claim 1 wherein said housing is fixedly connected to said second end, said
- 2 second magnet is positioned within said housing and said longitudinal member is cylindrical.
- 1 5. The device of claim 1 wherein said first end has a cavity, said cavity having an outer
- 2 edge.
- 1 6. The device of claim 5 wherein said first magnet is secured within said cavity.
- 1 7. The device of claim 6 wherein said at least a portion of said surface of said first magnet
- 2 extends above said outer edge.
- 1 8. The device of claim 6 wherein at least a portion of said surface of said first magnet is
- 2 flush with said outer edge.
- 1 9. A magnet sweep which comprises:
 - 2 a longitudinal member having a distal and proximal end;

3 a housing secured to said proximal end and being substantially perpendicular to said
4 longitudinal member, said housing comprised of a chamber, said chamber having a length L, a
5 front side having a groove disposed therein, a rear side having a groove disposed therein, a first
6 end wall and a second end wall;

7 a first magnet secured to said distal end, said first magnet having a surface;

8 a second magnet secured within said chamber;

9 a plate having a surface area secured to said chamber and positioned within a proximity
10 to said second magnet to magnetize said plate, said surface area of said plate having a
11 substantially larger square area than said surface of said first magnet; and

12 a slide having front, rear and bottom portions, said front and rear portions each having a
13 projection, said projection of said front portion being received in said groove of said front side
14 and said projection of said rear portion being received in said groove of said rear side to slidably
15 connect said slide to said housing, said bottom portion having a first and second edge, said first
16 edge detaching metal pieces attracted to said surface of said second magnet when moved along
17 length L of said housing in a direction toward said second end wall and said second edge
18 detaching metal pieces attracted to said surface of said second magnet when moved along length
19 L of said housing in a direction toward said first end wall.

1 10. The sweep of claim 9 wherein said housing further comprises a post integral with said
2 base, said post being adapted to receive said second end.

1 11. The sweep of claim 9 wherein said housing is pivotally connected to said second end.

1 12. The sweep of claim 9 wherein said distal end has a cavity, said cavity having an outer
2 edge.

1 13. The sweep of claim 12 wherein said first magnet is positioned within said cavity.

1 14. The sweep of claim 13 wherein said at least a portion of said surface of said first magnet
2 extends above said outer edge.

1 15. The sweep of claim 13 wherein at least a portion of said surface of said first magnet is
2 flush with said outer edge.

1 16. A device for attracting metal particles which comprises:

2 a longitudinal member having a distal and proximal end;

3 a first magnet secured to said distal end, said first magnet having a surface;

4 a housing secured to said proximal end, said housing comprised of a front side having a
5 groove disposed therein, a rear side having a groove disposed therein, a first wall and a second
6 wall;

7 a second magnet secured to said housing, said second magnet having a surface, said
8 surface of said second magnet having a square area that is substantially greater than said surface
9 of said first magnet;

10 a plate having a surface area secured to said housing and positioned within a proximity to
11 said second magnet to magnetize said plate, said surface area of said plate having a substantially
12 larger square area than said surface of said first magnet; and

13 a substantially U-shaped portion comprised of a first end wall having a protuberance
14 extending therefrom, a second end wall having a protuberance extending therefrom and a cross
15 member having a bottom surface, a first side wall angled acutely with respect to the X-axis of
16 said bottom surface and a second side wall angled acutely with respect to the X-axis of said
17 bottom, said protuberance of said first end wall being received in said groove of said front side
18 and said protuberance of said second end wall being received in said groove of said rear side to
19 slidably connect said U-shaped portion to said housing, said first side wall detaching metal

20 pieces attracted on said surface of said second magnet when moved along length L of said
21 housing in a direction toward said first side wall and said second side wall detaching metal
22 pieces attracted on said surface of said second magnet when moved along length L of said
23 housing in a direction toward said second side wall.

1 17. The device of claim 16 wherein said housing further comprises a chamber extending
2 upwardly from said housing and wherein said longitudinal member comprises a shaft and said
3 proximal end comprises a knob, said knob being received in said chamber to rotatably secure
4 said longitudinal member to said housing.

1 18. The device of claim 16 wherein said distal end has a cavity, said cavity having an outer
2 edge.

1 19. The device of claim 18 wherein said first magnet is positioned within said cavity.

1 20. The device of claim 19 wherein at least a portion of said surface of said first magnet is
2 flush with said outer edge.